

**Q.P. Code: 302016**

**Reg. No:.....**

**Third Year B.Sc Perfusion Technology Degree Regular/Supplementary  
Examinations August 2019**

**Perfusion Technology - Applied**

**Time: 3 hrs**

**Max. Marks:- 100**

- *Answer all the questions*
- *Draw diagrams wherever necessary*

**Essays:**

**(2x15=30)**

1. Describe the strategies for myocardial protection during CPB
2. Describe briefly the various pumps used in heart lung machine and compare them.

**Short notes:**

**(5x7=35)**

3. Three stage venous cannula.
4. Blood cardioplegia.
5. Autologous blood transfusion.
6. Retrograde cerebral perfusion.
7. Membrane oxygenator.

**Answer briefly:**

**(7x5=35)**

8. Pressors in CPB.
9. Retrograde cardioplegia.
10. Lignocaine.
11. Haemodilution.
12. Prothrombin time.
13. Arterial filters.
14. Relation of pump flow to temperature.

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